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ATTORNEY DOCKET NO. APPLICATION NO. FILING DATE FIRST NAMED INVENTOR CONFIRMATION NO. 10/688,403 10/15/2003 Michel K. Lovell FCW-006 1272 **EXAMINER** 4743 7590 12/15/2004 MARSHALL, GERSTEIN & BORUN LLP PICKARD, ALISON K 6300 SEARS TOWER ART UNIT PAPER NUMBER 233 S. WACKER DRIVE CHICAGO, IL 60606 3676

DATE MAILED: 12/15/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	,
Office Action Summary	10/688,403	LOVELL ET AL.	
	Examiner	Art Unit	1
	Alison K. Pickard	3676	1/
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).			
Status			
1) Responsive to communication(s) filed on			
_	action is non-final.		
3) Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the merits i	S
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-22 is/are pending in the application.			
4a) Of the above claim(s) is/are withdrav	vn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-22</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/or	election requirement.		
Application Papers			
9)☐ The specification is objected to by the Examine	r. '		
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.			
in the oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreigna) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	(d) or (f).	
1. Certified copies of the priority documents			
2. Certified copies of the priority documents		· · · · · · · · · · · · · · · · · · ·	
3. Copies of the certified copies of the prior		d in this National Stage	
application from the International Bureau * See the attached detailed Office action for a list of		4	
oss the attached detailed Office action for a list (or me cerunea copies not teceived	ι.	
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interview Summary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Dat	e	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal Pa	tern Application (PTO-152)	

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-3, 5-7, 9, 12, 13, and 16-22 are rejected under 35 U.S.C. 102(b) as being anticipated by Howard (5,225,379).

Howard discloses a packing arrangement having plural components, one being a seal 117. The seal is formed of a graphite composition and a plurality of abrasive particles (see col. 7, lines 27-45), such as Na2SiO3.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 14 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Howard in view of Siems (4,106,592).

Howard does not disclose the rod is coated with chrome or nickel. Siems teaches coating a rod with chrome to provide protection against wear and chemicals (see col. 1, line 38).

Therefore, it would have been obvious for one of ordinary skill in the art at the time the invention was made to coat the rod of Howard with chrome to protect the rod as taught by Siems.

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5. Claims 1-13 and 16-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brestel (5,299,812) in view of Howard.

Brestel discloses a packing arrangement comprising plural components such as a follower 68, bushing 64, anti-extrusion ring 64, and washers (e.g. 30 or 24), and a seal 56. The seal is a laminated ring of graphite and PTFE. Brestel does not disclose that the seal comprises a plurality of abrasive particles. Howard teaches a packing arrangement. Howard teaches adding a sodium silicate to a sealing ring comprising graphite to increase the abrasive effect of the seal (see col. 7, lines 27-45). The Na2SiO3 would coat the graphite particles, thus creating plural abrasive particles. Therefore, it would have been obvious for one of ordinary skill in the art at the time the invention was made to modify the seal of Brestel with the abrasive particles taught by Howard to create a seal with a cleaning action without undue wear or abrasion on the shaft.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alison K. Pickard whose telephone number is 703-305-0882. The examiner can normally be reached on M-F (10-7:30), with alternate Friday's off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Swann can be reached on 703-306-4115. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Alison K. Pickard Primary Examiner Art Unit 3676